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High-sensitivity intrinsic fiber-optic Fabry-Perot pressure sensor

TW Kao, HF Taylor - elastic - ol.osa.org

... air pump provides pressure in the **tube**, which varies ... for smart structure based upon the **Fabry-Perot** interferometer," in **Fiber Optics Smart ...**

Cited by 14 - [Web Search](#) - [ol.osa.org](#) - [csa.com](#) - [adsabs.harvard.edu](#)

New generation of Fabry-Perot fiber optic sensors for monitoring of structures

P Choquet, F Juneau, F Bessette - 2000 - roctest.com

... are transferred from the structure to the small **tube**. ... Stainless steel **diaphragm Fiber** optic cable ... 13: Operating principle of a **Fabry-Perot fiber** optic pressure ...

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Embedded micromachined fiber-optic Fabry-Perot pressure sensors in aerodynamics applications

MJ Gander, WN MacPherson, JS Barton, RL Reuben, ... - IEEE Sensors Journal, 2003 - ieeexplore.ieee.org

... of the sensor, in principle forming a **Fabry-Perot** sensing cavity. ... m wavelength LED delivered by a multimode **fiber**. ... exceeding 200 kHz in shock **tube** experiments ...

Cited by 10 - [Web Search](#) - [ieeexplore.ieee.org](#) - [pcm411.com](#) - [csa.com](#)

Fiber Fabry-Perot Sensors for Detection of Partial Discharges in Power Transformers

B Yu, DW Kim, J Deng, H Xiao, A Wang - Applied Optics, 2003 - aoot.osa.org

... a fused-silica **diaphragm** and a single-mode optical **fiber** encapsulated in a fused-silica glass **tube** to form an extrinsic **Fabry-Perot** interferometer, which ...

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A spatial spectral scanning technique for the Fabry-Perot spectrometer

GG Shepherd, CW Lake, JR Miller, LL Cogger - Appl. Opt, 1965 - ao.osa.org

... 9p is governed by the **tube** envelope and cathode relation ... and the diameter of an individual **fiber** is 100 ... is to be utilized in a **Fabry-Perot** spectrometer designed ...

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Prototype fiber-optic-based pressure probe with built-in temperature compensation with signal ...

YJ Rao, DA Jackson - APPLIED OPTICS, 1993 - ao.osa.org

... collimator (Selfoc FCP) pigtailed with a multimode **fiber** link. ... The **Fabry-Perot** cavity of the TP was fabricated with a ... on the end of the brass **tube** by adhesive ...

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Blast-pressure measurement with a high-bandwidth fibre optic pressure sensor

WN MacPherson, MJ Gander, JS Barton, JDC Jones, CL ... - Measurement Science and Technology, 2000 - iop.org

... small-scale shock **tube** indicate that the rise time is less ... Kao TW and Taylor HF 1996

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Miniature Fiber-Optic Pressure Sensor

Y Zhu, A Wang - IEEE Photonics Technology Letters, 2005 - ieeexplore.ieee.org

... **fiber**-optic sensors based on **Fabry-Pérot** (FP) interferometry ... ZHU AND WANG: MINIATURE **FIBER**-OPTIC PRESSURE SENSOR 449 ... sealed in a **tube** and pressurized by a ...

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J Deng, H Xiao, W Huo, M Luo, R May, A Wang, Y Liu - Opt. Laser Technol, 2001 - ingentaconnect.com

... **fiber** optic sensor uses a silica **diaphragm** and a single mode optical **fiber** encapsulated in a silica glass **tube** to form an extrinsic **Fabry-Perot** interferometer. ...



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Extrinsic optical-fiber ultrasound sensor using a thin polymer film as a low-finesse Fabry-Perot ...

PC Beard, TN Mills - Appl. Opt, 1996 - [ao.osa.org](#)... the separation of two optical fibers in a silica **tube**. ... film acting as a low-finesse**Fabry-Perot** interferometer 19 ... is mounted at the end of an optical **fiber**. ...Cited by 17 - [Web Search](#) - [medphys.ucl.ac.uk](#) - [aoot.osa.org](#) - [adsabs.harvard.edu](#) - [all 6 versions](#) »

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MJ Gander, WN MacPherson, JS Barton, RL Reuben, ... - IEEE Sensors Journal, 2003 - [ieeexplore.ieee.org](#)... correspond to reflections of the shock front within the shock **tube**. ... GANDER et al.:

EMBEDDED MICROMACHINED FIBER OPTIC FABRY-PEROT PRESSURE SENSORS 107 ...

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Extrinsic Fabry-Perot interferometer vibration and acoustic sensor systems for airport ground ...

N Fuerstenau, M Schmidt, H Horack, W Goetze, W ... - IEE Proceedings Optoelectronics, 1997 - [ieeexplore.ieee.org](#)... to these electromagnetic sen- sors, the fibre optic extrinsic **Fabry-Perot** microinter-ferometer (EFPI ... inside the terminal box and fed through a **tube** to the ...Cited by 14 - [Web Search](#) - [ieeexplore.ieee.org](#) - [csa.com](#) - [link.aip.org](#)

Extrinsic Fabry-Perot interferometer for measuring the stiffness of ciliary bundles on hair cells

MD Barrett, EH Peterson, JW Grant - IEEE Transactions on Biomedical Engineering, 1999 - [ieeexplore.ieee.org](#)... **fiber** is interrupted by a splice **tube**, which allows ... with hydrofluoric acid to removeits **fiber** cladding and ... and the target is the extrinsic **Fabry-Perot** cavity ...Cited by 4 - [Web Search](#) - [crab-lab.zool.ohiou.edu](#) - [ieeexplore.ieee.org](#) - [ncbi.nlm.nih.gov](#)

Versatile fiber-coupled system for simultaneous photon correlation spectroscopy and Fabry-Perot

... RB Bogoslovov, DP Shelton, JC Selser, G Piet, S ... - Review of Scientific Instruments, 2004 - [physics.unlv.edu](#)... 400 m) and directed to the photomultiplier **tube** (PMT). ... AND DISCUSSION A. Resolutionof the **fiber**-coupled plane-parallel **Fabry-Perot** interferometer ...Cited by 1 - [View as HTML](#) - [Web Search](#) - [link.aip.org](#) - [link.aip.org](#)

Miniature fiber-optic multicavity Fabry-Perot interferometric biosensor

Y Zhang - 2005 - [scholar.lib.vt.edu](#)... Keywords: **Fabry-Perot** interferometry, **Fiber** optic biosensor, Polyelectrolyte self-

assembly, Temperature compensation ©Copyright 2005, Yan Zhang Page 2. ...

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An ultra-sensitive optical MEMS sensor for partial discharge detection

X Wang, B Li, Z Xiao, SH Lee, H Roman, OL Russo, ... - Journal of Micromechanics and Microengineering, 2005 - [iop.org](#)... is used to place a ferruled **fiber** for **Fabry Perot** interrogation ... for the **fiber** andsets the baseline depth of the **fiber**. ... in figure 6. A 7 inch long **tube** is also ...[Web Search](#) - [iop.org](#) - [ingentaconnect.com](#) - [adsabs.harvard.edu](#) - [all 5 versions](#) »

Design of fiber optic sensor systems for low velocity impact detection

CC Chang, JS Sirkis - Smart Materials and Structures, 1998 - [iop.org](#)... of meeting these requirements are extrinsic **Fabry-Perot** sensors [13] and in-line**fiber** etalon (ILFE ... fusing a short segment of hollow **tube fiber** in between ...Cited by 6 - [Web Search](#) - [ingentaconnect.com](#) - [adsabs.harvard.edu](#) - [csa.com](#) - [all 7 versions](#) »

Micromachined sensor design for optical-fiber flow measurement



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Tunable InP/air gap Fabry Perot filter for wavelength division multiplex fiber optical transmission

J Daleiden, N Chitica, M Strassner, A Spisser, JL ... - Proc. 11th Int. Conf. InP and Related Materials - [ieeexplore.ieee.org](#)

... to avoid sticking effects due to **capillary** forces. ... of the tunable inP/air gap **Fabry Perot** filter. ... spontaneous emission of an erbium-doped **fiber** amplifier (EDFA ...

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Ultralow biased widely continuously tunable fabry-perot filter

S Irmer, J Daleiden, V Rangelov, C Prott, F Romer, ... - IEEE Photonics Technology Letters, 2003 - [ieeexplore.ieee.org](#)

... et al.: ULTRALOW BIASED WIDELY CONTINUOUSLY TUNABLE **FABRY-PÉROT** FILTER ... of the layers as a result of **capillary** forces. ... The **fiber** is located very close to the ...

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Extrinsic Fabry-Perot interferometer vibration and acoustic sensor systems for airport ground ...

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... The theoretical background of the extrinsic **Fabry—Perot** interferometer (EFPI) sensors is derived, and results of laboratory experiments as well as initial ...

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... Keywords: **Fabry-Perot** interferometry, **Fiber** optic biosensor, Polyelectrolyte self-assembly, Temperature compensation ©Copyright 2005, Yan Zhang Page 2. ...

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Geotechnical pressure cell using a long-term reliable high-precision fiber optic sensor head

R Gloetzi, G GmbH, D Hofmann, F Basedau, W Habel - [gloetzi.de](#)

... reactions of the sensing element to the tiny **membrane**. ... able to slide in a tiny **capillary** [3], is ... This movable **fiber Fabry-Pérot** sensor is driven by a change ...

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INTEGRATED TUNABLE OPTICAL INTERFEROMETER

O USING, OS MICROMACHINING - [ieeexplore.ieee.org](#)

... Si surface as a result of attractive **capillary** forces and ... MEMS prcsurc scncor labricated on an optical **fiber**". ... "Surface micromachined **Fabry-Perot** Tunable Filter ...

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Micro-mechanical voltage tunable Fabry-Perot filters formed in (111) silicon

JD Patterson - 1997 - [techreports.larc.nasa.gov](#)

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J Daleiden, N Chitica, M Strassner - Sensors and Materials, 2002 - [uni-kassel.de](#)

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Lightning-safe diaphragm pressure gauge for geotechnical applications using a long-term reliable ...

D Hofmann, F Basedau, WR Habel, R Gloetzi - Saratov Fall Meeting 2003: Laser Physics and Photonics, ..., 2004 - [gloetzi.de](#)



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P Choquet, F Juneau, F Bessette - 2000 - roctest.com

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Fabrication and test of a thermopneumatic micropump with a corrugated **pq diaphragm**

OC Jeong, SS Yang - Sensors and Actuators, 2000 - mems.ajou.ac.kr

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Ultra-miniature **fiber-optic** pressure sensor using white light interferometry

K Totsu, Y Haga, M Esashi - Journal of Micromechanics and Microengineering, 2005 - iop.org

... **Fabry-Perot** interferometer (FPI) at the **fiber** end ... figure 4. The silicon column keeps the sensing element parallel to the **fiber** end in the glass **capillary**. ...Cited by 1 - [Web Search](#) - [iop.org](#) - [ingentaconnect.com](#) - [adsabs.harvard.edu](#) - [all 5 versions »](#)

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Y Zhang - 2005 - scholar.lib.vt.edu

... 51 Chapter 3 Microgap multicavity **Fabry-Perot** sensor ... 90 4.4.1 Self-assembly on **fiber** end ... Figure 2.2 Structure of miniature FFPI sensors. (a) **Diaphragm**-based FFPI ...Cited by 1 - [View as HTML](#) - [Web Search](#) - [ol.osa.org](#) - [scholar.lib.vt.edu](#) - [ncbi.nlm.nih.gov](#)

Lightning-safe **diaphragm** pressure gauge for geotechnical applications using a long-term reliable ...

D Hofmann, F Basedau, WR Habel, R Gloetzel - Saratov Fall Meeting 2003: Laser Physics and Photonics, ..., 2004 - gloetzel.de

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Multiplexed sensor system for simultaneous measurement of pressure and temperature.

W Li, DC Abeysinghe, JT Boyd - Optical Engineering, 2004 - link.aip.org

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JW Borinski, CD Boyd, JA Dietz, JC Duke, MR Home, ... - AUTOTESTCON Proceedings, 2001. IEEE Systems Readiness ..., 2001 - ieeexplore.ieee.org

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ADVANCES IN **FABRY-PEROT FIBER** OPTIC SENSORS AND INSTRUMENTS FOR GEOTECHNICAL MONITORING

F OPTIC - roctest.com

... **Capillary** tube ... order to obtain a linear relationship between **diaphragm** deflection and ... Figure 5. Operating principle of a **Fabry-Perot fiber** optic piezometer ...[Web Search](#)



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Fiber Fabry-Perot Sensors for Detection of Partial Discharges in Power Transformers

B Yu, DW Kim, J Deng, H Xiao, A Wang - Applied Optics, 2003 - aoot.osa.org

... 1. Schematic of a **fiber Fabry-Perot** acoustic sensor system: SMF, single-mode ... we fabricated a sensor head by thermally bonding a **fiber**, a **ferrule**, a silica ...Cited by 3 - [Web Search](#) - [ao.osa.org](#) - [adsabs.harvard.edu](#) - [ncbi.nlm.nih.gov](#) - [all 7 versions](#) »

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J Xu, G Pickrell, X Wang, W Peng, K Cooper, A Wang - IEEE Photonics Technology Letters, 2005 - ieeexplore.ieee.org

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Fiber Optic Pressure Sensor Fabrication Using MEMS Technology

X Chen - 2003 - scholar.lib.vt.edu

... form extrinsic **Fabry-Perot** (FP) interferometric cavities. Sol-gel is used as an intermediate-layer for both **fiber-ferrule** bonding and **ferrule-diaphragm** bonding ...Cached - [Web Search](#) - [scholar.lib.vt.edu](#)

Fiber Optic Microphone

YC Cho, T George - 1999, 1999 - csa.com

... **Fabry-Perot** interferometry. The sensing head is composed of an optical **fiber** terminated in a miniature **ferrule** with a thin, silicon-microfabricated **diaphragm** ...[Web Search](#)

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HTFO Pressure - pdf.aiaa.org

... SUS flange Zirconia **ferrule** Metal housing Optical **fiber** Metal iaphragmFig.2 Sensor head. Extrinsic **Fabry-Perot** interferometers ...[Web Search](#) - [pdf.aiaa.org](#)

Development of Novel Optical Fiber Interferometric Sensors with High Sensitivity for Acoustic ...

J Deng - 2004 - scholar.lib.vt.edu

... intensity in a **Fabry-Perot** interferometer16 ... Photograph of three**diaphragm**-based sensor ... surrounding the **fiber-ferrule** assembly ...[View as HTML](#) - [Web Search](#) - [scholar.lib.vt.edu](#)

Study On a Novel Optical Fiber Pressure Sensor

G Wang, V Fu, ME Welland, HP Hodson, J Ma - Electronic Packaging Technology Proceedings, 2003. ICEPT2003 ..., 2003 - ieeexplore.ieee.org

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... the two FP-mirrors via tilting of the **ferrule** [tilt angle ... Page 2. FURSTENAU et al.: EXTRINSIC FABRY-PEROT INTERFEROMETER FIBER-OPTIC MICROPHONE ...

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... treating the mod-ulator as a **Fabry-Perot** etalon with ... the original position (from the **membrane** tension force ... 7. (a) Dual **fiber ferrule** and assembly of **ferrule** ...

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... and a suspended deformable-**membrane** mirror [6 ... s are bonded onto metal **ferrule** submounts to ... D. Marcuse, "Ultrahigh finesse **fiber Fabry-Perot** interfer-ometers ...

Cited by 4 - [Web Search](#) - [ieeexplore.ieee.org](#)**Miniature fiber-optic multicavity Fabry-Perot interferometric biosensor**Y Zhang - 2005 - [scholar.lib.vt.edu](#)

... Keywords: **Fabry-Perot** interferometry, **Fiber** optic biosensor, Polyelectrolyte self-assembly, Temperature compensation ©Copyright 2005, Yan Zhang Page 2. ...

Cited by 1 - [View as HTML](#) - [Web Search](#) - [ol.osa.org](#) - [scholar.lib.vt.edu](#) - [ncbi.nlm.nih.gov](#)**Extrinsic Fabry-Perot Interferometer Fiber**N Furstenau, H Horack, W Schmidt - [ieeexplore.ieee.org](#)

... L=**Fabry-Perot** cavity length, PD= photodiode ... is based on an extrinsic **Fabry-Perot** interferometer (EFPI-A ... coupled to the reflector **fiber ferrule** for transferring ...

[Web Search](#)**WAVELENGTH TUNING IN PHOTO-PUMPED 1.3 μm FIBER FABRY-PEROT SURFACE EMITTING LASERS**K Hsu, CM Miller, D Babic, D Houn, A Taylor - [ieeexplore.ieee.org](#)

... hybrid configuration forms the **fiber Fabry-Perot** surface-emitting ... The **fiber** optic components are mounted in ... VCSELs are bonded onto metal **ferrule** sub-mounts ...

[Web Search](#) - [ieeexplore.ieee.org](#)**Fiber Optic Microphone**YC Cho, T George - 1999., 1999 - [csa.com](#)

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Transduction Mechanisms of the **Fabry-Perot** Polymer Film Sensing Concept for Wideband Ultrasound ...

WCI GJA - [ieeexplore.ieee.org](#)... that of a calibrated PVDF' **membrane** hydrophone using ... poiyiriei' film acting as a**Fabry— Perot** sensing iriterferometer ... tip of cii optiel **fiber** [i.]. These ...Cited by 19 - [Web Search](#) - [medphys.ucl.ac.uk](#) - [medphys.ucl.ac.uk](#) - [csa.com](#) - [all 5 versions](#) »

Optical multilayer detection array for fast ultrasonic field mapping

V Wilkens, K Ch - [Optics Letters](#) - [ol.osa.org](#)... 1). The **Fabry-Perot** or interference filter structure, which is a ... ment, 2 comprisesa central l 2 **spacer** layer and ... expensive to apply in the case of **fiber** tips ...Cited by 17 - [Web Search](#) - [ol.osa.org](#) - [ibredesign.osa.org](#) - [adsabs.harvard.edu](#)

Fabry Perot polymer film fibre-optic hydrophones and arrays for ultrasound field characterisation

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MICRO-MACHINED TUNABLE OPTICAL FILTERS WITH OPTIMIZED BAND-PASS SPECTRUM

D Hohlfeld, H Zappe - [TRANSDUCERS, Solid-State Sensors, Actuators and Microsystems ...](#), 2003 - [ieeexplore.ieee.org](#)... In contrast to conventional **Fabry- Perot** designs all-dielectric optical ... the basicall-dielectric Faby-**Perot** filter is ... outer diameter of the glass **fiber** at the ...Cited by 2 - [Web Search](#) - [toshi.fujita3.iis.u-tokyo.ac.jp](#) - [ieeexplore.ieee.org](#)

HYBRID OPTICAL ASSEMBLY TECHNIQUE FOR TUNABLE OPTICAL FILTER ARRAYS

D Hohlfeld, H Zappe - [ieeexplore.ieee.org](#)... device shucture consisting of three identical **Fabry-Perot** filters. ... are placed usingprecision-diced **spacer** elements ... The **fiber** ends are moved close to the filter ...[Web Search](#) - [ieeexplore.ieee.org](#)

111-V **Membrane** Structures for Tunable **Fabry-PCrot** Filters and Sensor Applications

HL Hartnagel, J Pfeiffer, K Mutamba, J Peerlings, ... - [ieeexplore.ieee.org](#)... division multiplexing (WDM) system for optical **fiber** communication which ... In thiscase the **spacer** layer is grown ... of Bragg niirrors used in **Fabry-Perot** filters ...[Web Search](#)

Micromachined Optical Sensors utilizing Embedded **Fabry-Perot** Cavity for High-Resolution Detection

EJ Eklund - 2005 - [jesper eklund.com](#)... index of the **fiber** due to photoelastic effects [20]. In FPI-based pressure sensors,a **membrane** is utilized as one of the mirrors of a **Fabry-Perot** interferometer ...[View as HTML](#) - [Web Search](#)



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Ultra-miniature **fiber**-optic pressure sensor using white light interferometry

K Totsu, Y Haga, M Esashi - Journal of Micromechanics and Microengineering, 2005 - iop.org

... end. A ring-shaped **spacer** made of polyimide (2 μ m thick) is formed. ... system.**Fabry-Perot** interferometer (FPI) at the **fiber** end. The ...Cited by 1 - [Web Search](#) - [iop.org](#) - [ingentaconnect.com](#) - [adsabs.harvard.edu](#) - [all 5 versions](#) »

VACUUM SEALED ULTRA MINIATURE **FIBER**-OPTIC PRESSURE SENSOR USING WHITE LIGHT INTERFEROMETRY

YH Kentaro Totsu, M Esashib - ieeexplore.ieee.org

... A **Fabry-Perot** cavity is formed at the optical **fiber** end ... The sensing element is bonded to the optical **fiber** end by ... Sn layer is formed on the metal **spacer** of the ...[Web Search](#)

62.5: Miniature **Fiber** Optic Pressure Sensor for Medical Applications

E Cibula, D Donlagic, C Stropnik - spectrum - ieeexplore.ieee.org

... The use of miniature **Fabry-Perot** interferometer (FPI) was reported ... FPI _____ polymer\(\alpha\)-Phraam I **spacer** from multi ... is situated at the optical **fiber** end. ...[Web Search](#)

A Miniature **Fabry-Perot** Interferometer Fabricated Using Silicon Micromachining Techniques

JH Jerman, SR Mallinson, D Fabrication - ieeexplore.ieee.org

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Vacuum sealed ultra miniature **fiber**-optic pressure sensor using white light interferometry

K Totsu, Y Haga, M Esashi - TRANSDUCERS, Solid-State Sensors, Actuators and Microsystems ..., 2003 - ieeexplore.ieee.org

... A **Fabry-Perot** cavity is formed at the optical **fiber** end ... The sensing element is bonded to the optical **fiber** end by ... Sn layer is formed on the metal **spacer** of the ...[Web Search](#)

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O Microphony - aes.org

... This **spacer** can be from all ultra]ow ... Optical Digital Detection of **Diaphragm** Deflection: maximum ... SM and CAen CL, "Optical **Fiber Fabry-Perot** Sensors", Applied ...[Web Search](#)

Vertical resonant couplers with precise coupling efficiency control fabricated by wafer bonding

DV Tishinin, PD Dapkus, AE Bond, I Kim, CK Lin, JO ... - IEEE Photonics Technology Letters, 1999 - ieeexplore.ieee.org

... layer and with air (broken line) **spacer** for 40 ... preserved by using only polarizationmaintaining **fiber** on the ... 5 are affected by the **Fabry-Perot** modes of the ...Cited by 34 - [Web Search](#) - [csl.usc.edu](#) - [ieeexplore.ieee.org](#)

Dynamic Strain and Pressure Measurements of a Mercury Target Under Thermal Shock Tests

M Targets - ornl.gov

... **Spacer** ... To measure target strain, a commercially available Enhanced **Fabry-Perot** ... To conduct dynamic strain measurements, 20 EFPI **fiber** optic strain sensors are ...[View as HTML](#) - [Web Search](#)[ThAi \(Invited\) 8: 00am-8: 30am](#)

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